

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/576,491
Source: IRWP
Date Processed by STIC: 5/06

ENTERED



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/576,491

DATE: 05/01/2006
TIME: 10:57:25

Input Set : A:\Sequence.ST25.txt
Output Set: N:\CRF4\05012006\J576491.raw

3 <110> APPLICANT: Wu, Wenping
4 Jokumsen, Kirsten Vaever
5 Stringer, Mary Ann
7 <120> TITLE OF INVENTION: Trypsin like protease
9 <130> FILE REFERENCE: 10178.204-US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/576,491
C--> 11 <141> CURRENT FILING DATE: 2006-04-18
11 <160> NUMBER OF SEQ ID NOS: 5
13 <170> SOFTWARE: PatentIn version 3.3
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 1004
17 <212> TYPE: DNA
18 <213> ORGANISM: Fusarium solani
21 <220> FEATURE:
22 <221> NAME/KEY: CDS
23 <222> LOCATION: (52)..(804)
25 <220> FEATURE:
26 <221> NAME/KEY: mat_peptide
27 <222> LOCATION: (127)..(804)
28 <223> OTHER INFORMATION: 52-102: signal peptide and 103-126: pro-peptide
30 <400> SEQUENCE: 1
31 ctcttcactc ttcaactctc tactcttgaa atccccgttc tgctcttcac c atg gtc 57
32 Met Val
33 -25
35 aag ttt gct gcc atc ctc gca ctt gtt gcg cct ctt gtc gcc gct cg 105
36 Lys Phe Ala Ala Ile Leu Ala Leu Val Ala Pro Leu Val Ala Ala Arg
37 -20 -15 -10
39 cct cag gac tca tca ccc atg atc gtt ggt gga act gct gcc agc gct 153
40 Pro Gln Asp Ser Ser Pro Met Ile Val Gly Gly Thr Ala Ala Ser Ala
41 -5 -1 1 5
43 ggt gac ttc ccc ttc atc gtc agc atc gcc tac aat ggt ggc cct tgg 201
44 Gly Asp Phe Pro Phe Ile Val Ser Ile Ala Tyr Asn Gly Gly Pro Trp
45 10 15 20 25
47 tgc gga ggt acc ctc ctc aac gcc aac acc gtc atg act gct gcc cac 249
48 Cys Gly Thr Leu Leu Asn Ala Asn Thr Val Met Thr Ala Ala His
49 30 35 40
51 tgc acc caa ggt cgc tct gct agc gcc ttc cag gtc cgc gcc gga agt 297
52 Cys Thr Gln Gly Arg Ser Ala Ser Ala Phe Gln Val Arg Ala Gly Ser
53 45 50 55
55 ctg aac cgc aac tcg ggt ggt acc tct tcc gtt tct tcc atc agg 345
56 Leu Asn Arg Asn Ser Gly Gly Val Thr Ser Ser Val Ser Ser Ile Arg
57 60 65 70
59 atc cat cct agc ttc agt agc tcg acc ctc aac aac gat gtt tcc atc 393

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60	Ile	His	Pro	Ser	Phe	Ser	Ser	Ser	Thr	Leu	Asn	Asn	Asp	Val	Ser	Ile	
61	75				80					85							
63	ctg	aag	ctg	tcc	acc	ccc	atc	tcg	act	agc	tcc	act	att	tct	tat	ggt	441
64	Leu	Lys	Leu	Ser	Thr	Pro	Ile	Ser	Thr	Ser	Ser	Thr	Ile	Ser	Tyr	Gly	
65	90				95					100					105		
67	cgc	ctg	gct	gct	tcg	ggc	tct	gac	cct	gtt	gcc	ggc	tct	gat	gcc	aca	489
68	Arg	Leu	Ala	Ala	Ser	Gly	Ser	Asp	Pro	Val	Ala	Gly	Ser	Asp	Ala	Thr	
69					110				115					120			
71	gtt	gct	ggc	tgg	ggt	gtc	act	tct	cag	ggc	tct	tcc	agc	tct	ccc	gtg	537
72	Val	Ala	Gly	Trp	Gly	Val	Thr	Ser	Gln	Gly	Ser	Ser	Ser	Ser	Pro	Val	
73					125				130				135				
75	gct	ttg	agg	aag	gtt	acc	att	ccc	atc	gtc	tcc	cgc	acc	act	tgc	cga	585
76	Ala	Leu	Arg	Lys	Val	Thr	Ile	Pro	Ile	Val	Ser	Arg	Thr	Thr	Cys	Arg	
77					140			145			150						
79	tcc	cag	tat	ggc	act	tct	gcc	atc	acc	acc	aac	atg	ttc	tgc	gct	ggt	633
80	Ser	Gln	Tyr	Gly	Thr	Ser	Ala	Ile	Thr	Thr	Asn	Met	Phe	Cys	Ala	Gly	
81					155			160			165						
83	ctt	gct	gag	ggt	ggt	aag	gac	tct	tgc	cag	ggc	gac	ggc	ggc	ggt	ccc	681
84	Leu	Ala	Glu	Gly	Gly	Lys	Asp	Ser	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	
85					170			175			180			185			
87	att	gtc	gat	acc	aac	act	gtc	att	ggc	att	gtt	tct	tgg	ggt	gag		729
88	Ile	Val	Asp	Thr	Ser	Asn	Thr	Val	Ile	Gly	Ile	Val	Ser	Trp	Gly	Glu	
89					190			195			200						
91	ggt	tgt	gct	cag	ccc	aac	tta	tct	ggt	gtc	tat	gcc	cga	gtt	gga	tct	777
92	Gly	Cys	Ala	Gln	Pro	Asn	Leu	Ser	Gly	Val	Tyr	Ala	Arg	Val	Gly	Ser	
93					205			210			215						
95	ctc	cgc	act	tac	atc	gac	ggc	cag	ctg	taaattgctc	ggtcgggttgg						824
96	Leu	Arg	Thr	Tyr	Ile	Asp	Gly	Gln	Leu								
97					220			225									
99	tttacatttc	tgttctaggc	agtttgcttg	tcagagactt	ttgttgagat	ggggacggaa											884
101	gatggagtag	gaatgctgag	agtgtttgtt	tgagagttta	gttgatagtc	aagatccaag											944
103	tcccggttgg	ccatgcactg	gcaactcgag	cgactagatt	ctcaataaaa	ttgttcgtgg											1004
106	<210>	SEQ ID NO:	2														
107	<211>	LENGTH:	251														
108	<212>	TYPE:	PRT														
109	<213>	ORGANISM:	Fusarium solani														
111	<400>	SEQUENCE:	2														
113	Met	Val	Lys	Phe	Ala	Ala	Ile	Leu	Ala	Leu	Val	Ala	Pro	Leu	Val	Ala	
114	-25				-20				-15			-10					
117	Ala	Arg	Pro	Gln	Asp	Ser	Ser	Pro	Met	Ile	Val	Gly	Gly	Thr	Ala	Ala	
118					-5				-1	1			5				
121	Ser	Ala	Gly	Asp	Phe	Pro	Phe	Ile	Val	Ser	Ile	Ala	Tyr	Asn	Gly	Gly	
122					10			15			20						
125	Pro	Trp	Cys	Gly	Gly	Thr	Leu	Leu	Asn	Ala	Asn	Thr	Val	Met	Thr	Ala	
126					25			30			35						
129	Ala	His	Cys	Thr	Gln	Gly	Arg	Ser	Ala	Ser	Ala	Phe	Gln	Val	Arg	Ala	
130	40				45			50			55						
133	Gly	Ser	Leu	Asn	Arg	Asn	Ser	Gly	Gly	Val	Thr	Ser	Ser	Val	Ser	Ser	
134					60			65			70						

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137 Ile Arg Ile His Pro Ser Phe Ser Ser Ser Thr Leu Asn Asn Asp Val
 138 75 80 85
 141 Ser Ile Leu Lys Leu Ser Thr Pro Ile Ser Thr Ser Ser Thr Ile Ser
 142 90 95 100
 145 Tyr Gly Arg Leu Ala Ala Ser Gly Ser Asp Pro Val Ala Gly Ser Asp
 146 105 110 115
 149 Ala Thr Val Ala Gly Trp Gly Val Thr Ser Gln Gly Ser Ser Ser Ser
 150 120 125 130 135
 153 Pro Val Ala Leu Arg Lys Val Thr Ile Pro Ile Val Ser Arg Thr Thr
 154 140 145 150
 157 Cys Arg Ser Gln Tyr Gly Thr Ser Ala Ile Thr Thr Asn Met Phe Cys
 158 155 160 165
 161 Ala Gly Leu Ala Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp Ser Gly
 162 170 175 180
 165 Gly Pro Ile Val Asp Thr Ser Asn Thr Val Ile Gly Ile Val Ser Trp
 166 185 190 195
 169 Gly Glu Gly Cys Ala Gln Pro Asn Leu Ser Gly Val Tyr Ala Arg Val
 170 200 205 210 215
 173 Gly Ser Leu Arg Thr Tyr Ile Asp Gly Gln Leu
 174 220 225
 177 <210> SEQ ID NO: 3
 178 <211> LENGTH: 27
 179 <212> TYPE: DNA
 180 <213> ORGANISM: Artificial Sequence
 182 <220> FEATURE:
 183 <223> OTHER INFORMATION: Primer
 186 <220> FEATURE:
W--> 187 <221> NAME/KEY: Primer
 188 <222> LOCATION: (1)..(27)
 190 <400> SEQUENCE: 3
 191 tcttaagcttc accatggtca agtttgc 27
 194 <210> SEQ ID NO: 4
 195 <211> LENGTH: 20
 196 <212> TYPE: DNA
 197 <213> ORGANISM: Artificial Sequence
 199 <220> FEATURE:
 200 <223> OTHER INFORMATION: Primer
 203 <220> FEATURE:
W--> 204 <221> NAME/KEY: Primer
 205 <222> LOCATION: (1)..(20)
 207 <400> SEQUENCE: 4
 208 tcttagtcgct cgagttgcag 20
 211 <210> SEQ ID NO: 5
 212 <211> LENGTH: 20
 213 <212> TYPE: DNA
 214 <213> ORGANISM: Artificial
 216 <220> FEATURE:
 217 <223> OTHER INFORMATION: Primer
 220 <220> FEATURE:

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Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF4\05012006\J576491.raw

W--> 221 <221> NAME/KEY: Primer
222 <222> LOCATION: (1)..(20)
224 <400> SEQUENCE: 5
225 ctcttcactc ttcaactctc

20

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/01/2006
PATENT APPLICATION: US/10/576,491 TIME: 10:57:26

Input Set : A:\Sequence.ST25.txt
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq# : 5

VERIFICATION SUMMARY

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Input Set : A:\Sequence.ST25.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:187 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:204 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:221 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5